







# ENG-MS21002-R1-FDR.pdf Markup Summary

1 (7)		
<div>Final</div> <div>PRELIMIN</div>	<div>Subject: Callout</div> <div>Page Index: 1</div> <div>Date: 4/2/2021 2:18:06 PM</div> <div>Author: dsdrice</div> <div>Color: </div> <div>Layer:</div> <div>Space:</div> <div>Page Label: 1</div>	Final
<div>PRELIMINARY DR. BRADLEY PO</div> <div>EL PASO COU</div>	<div>Subject:</div> <div>Page Index: 1</div> <div>Date: 4/2/2021 2:18:12 PM</div> <div>Author: dsdrice</div> <div>Color: </div> <div>Layer:</div> <div>Space:</div> <div>Page Label: 1</div>	PRELIMINARY
<div>#70-074</div> <div>t #</div> <div>MS-21-002</div>	<div>Subject: Text Box</div> <div>Page Index: 1</div> <div>Date: 4/2/2021 2:18:41 PM</div> <div>Author: dsdrice</div> <div>Color: </div> <div>Layer:</div> <div>Space:</div> <div>Page Label: 1</div>	MS-21-002
<div>Engineering Review</div> <div>04/02/2021 2:18:51 PM</div> <div>dsdrice</div> <div>dsdrice@elcopa.com</div> <div>(719) 520-7877</div> <div>EPC Planning &amp; Community Development Department</div>	<div>Subject: EPC ENG Review</div> <div>Page Index: 1</div> <div>Date: 4/2/2021 2:18:58 PM</div> <div>Author: dsdrice</div> <div>Color: </div> <div>Layer:</div> <div>Space:</div> <div>Page Label: 1</div>	
<div>PRELIMINARY DRAINAGE</div> <div>BRADLEY POINT FIL</div> <div>EL PASO COUNTY, CO</div> <div>IN BLUE BOXES WITH BLUE TEXT</div> <div>December 2020</div> <div>Page 10 of 10</div>	<div>Subject: PCD Comment Legend</div> <div>Page Index: 1</div> <div>Date: 4/2/2021 2:19:13 PM</div> <div>Author: dsdrice</div> <div>Color: </div> <div>Layer:</div> <div>Space:</div> <div>Page Label: 1</div>	
<div>See comment memo also.</div>	<div>Subject: Text Box</div> <div>Page Index: 1</div> <div>Date: 4/2/2021 2:19:32 PM</div> <div>Author: dsdrice</div> <div>Color: </div> <div>Layer:</div> <div>Space:</div> <div>Page Label: 1</div>	See comment memo also.



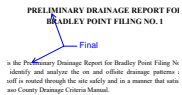
**Subject:** Stormwater Comments Color  
**Page Index:** 1  
**Date:** 4/6/2021 4:22:37 PM  
**Author:** CFurchak  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** 1

4 (3)

is the Preliminary Dra  
identify and analyze  
noff is routed through

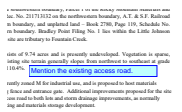
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**Page Index:** 4  
**Date:** 4/2/2021 2:20:33 PM  
**Author:** dsdrice  
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**Page Label:** 4

e Preliminary



**Subject:** Callout  
**Page Index:** 4  
**Date:** 4/2/2021 2:20:45 PM  
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**Page Label:** 4

Final



**Subject:** Text Box  
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**Page Label:** 4

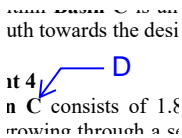
Mention the existing access road.

6 (6)



**Subject:**  
**Page Index:** 6  
**Date:** 4/5/2021 8:22:42 AM  
**Author:** dsdrice  
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**Page Label:** 6

C



**Subject:** Callout  
**Page Index:** 6  
**Date:** 4/5/2021 8:22:50 AM  
**Author:** dsdrice  
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**Page Label:** 6

D

only 60% of which is extremely sparse while the rest of the basin consists of tilled near the center of the site. Runoff is of Q5=1.1 cfs and Q100=2.9 cfs, and is south-southwest.

southwest to roadside ditch per routing?

ly 0.54 ac  
majority of

0.54

ly 1.13 :  
ximately

## 1.1

**Step 10** *Results* *Results* of approximately 100 trials of the half-sphere half-cube model using varying  $\alpha$  and  $\beta$  values in the neighborhood of one. Approximately half the trials were run at angles greater than one, and approximately half were run at angles less than one. The results of the trials are shown in Figure 10. The color-coded lines represent the results of the 100 trials. The color-coded lines represent the results of the 100 trials. The color-coded lines represent the results of the 100 trials.

$$\frac{1}{E} \sin$$

7 (4)



**Design Observation**

**Design Observation (Design Point)**

**Notes**

A minimum of 1:500 scale of moderately open natural grass and vegetation growth throughout the site, and a contour of the northern half of the site. Reduced predicted water

This appears to be a changed condition to a point discharge. See comment memo.



**Subject:** Callout  
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**Date:** 4/5/2021 8:39:44 AM  
**Author:** dsdrice  
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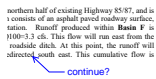
The grading plan shows regrading - will this just be gravel?



**Subject:** Engineer  
**Page Index:** 7  
**Date:** 4/6/2021 4:22:28 PM  
**Author:** CFurchak  
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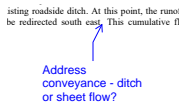
Please use the "Four-Step Process" for selecting structural BMPs as outlined in the ECM Section I.7.2 BMP Selection

8 (9)



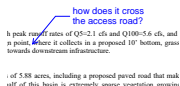
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**Page Index:** 8  
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continue?



**Subject:** Callout  
**Page Index:** 8  
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**Author:** dsdrice  
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Address conveyance - ditch or sheet flow?



**Subject:** Callout  
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**Author:** dsdrice  
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how does it cross the access road?

out 20% of  
1 a modera

**Subject:**  
**Page Index:** 8  
**Date:** 4/5/2021 8:40:54 AM  
**Author:** dsdrice  
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20%

equal to reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in  
and will reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in  
and will reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in

**Subject:** Callout  
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What is the proposed material?

ing a proposed private storm water storage and detention area to be  
it runs in gravel storage area. This basin is centrally located  
in B is anticipated to reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in  
and will reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in

**Subject:** Callout  
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**Date:** 4/5/2021 8:47:58 AM  
**Author:** dsdrice  
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**Page Label:** 8


FSD Pond?

remely sparse vegetation growing  
area is gravel storage area. This  
B is anticipated to reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in  
and will reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in

**Subject:**  
**Page Index:** 8  
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**Author:** dsdrice  
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18" RCP storm sewer

from this basin begins at the  
the bottom. This flow collected to reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in  
and will reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in

**Subject:**  
**Page Index:** 8  
**Date:** 4/5/2021 8:49:48 AM  
**Author:** dsdrice  
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Design Point 4


It subdivided area of the basin surrounding the detention pond, and is  
a gravel storage area. This basin is centrally located in the middle of the  
in B is anticipated to reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in  
and will reach peak runoff rates of Q10+1 cfs and Q100+5.6 cfs, and will reach the design point. Storm is collected in proposed 10' basins, placed in

**Subject:** Callout  
**Page Index:** 8  
**Date:** 4/5/2021 8:50:50 AM  
**Author:** dsdrice  
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**Layer:**  
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but the manner of discharge is being changed to a point discharge


9 (4)

NT FILING NO. 1  
the 2020 Drainage and Bridge Fees  
lows:  
Area 9.74 Acres

**Subject:** Callout  
**Page Index:** 9  
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2021

in less than 120  
ss is 33.3%. At  
y flows to the


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**Author:** dsdrice  
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s 33.3%

30 year will drain in less than 120  
ded imperviousness is 33.3%. An  
it to safely convey flow to the  
aflet chugging, at rates higher than  
sed at a crest elevation of 5781.34  
depth of 0.35 feet. This overflow

Gravel is 80%,  
plus pavement


ts, Inc submits an erosion control  
vehicle traffic control, a sediment

**Subject:** Callout  
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**Date:** 4/5/2021 11:23:47 AM  
**Author:** dsdrice  
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Gravel is 80%, plus pavement

ain permanent erosion control fabric as  
'CONTROL.


of the City of Colorado Springs that M  
drainage report. Proposed straw bale b  
ent erosion control fabric, and reseed  
lopment will not adversely impact the e

**Subject:**  
**Page Index:** 9  
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**Author:** dsdrice  
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City of Colorado Springs

10 (7)


he surrounding developments per  
dly convey, detain and route runoff  
l via proposed onsite improvements  
l flow into Fountain Creek per th  
oric flow. Care will be taken duri  
rary drainage conditions. Overall, t  
sely affect adjacent or downstream

**Subject:**  
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**Author:** dsdrice  
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s into Fountain Creek

a municipality intends to, together with other owners, construct a stormwater conveyance  
to Channel via proposed onsite improvements. A Full Spectrum  
developed flows into Fountain Creek per the Urban Drainage  
in the historic flow. Care will be taken during construction to  
and temporary drainage conditions. Overall, the development is  
not adversely affect adjacent or downstream property.

adjoining  
property?

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**Author:** dsdrice  
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adjoining property?

Pond L

**Subject:** Delete  
**Page Index:** 10  
**Date:** 4/2/2021 4:33:35 PM  
**Author:** dsdrice  
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Delete

(no bridge fees)

BRAWLEY POINT FILING  
Drainage Fees: 9.74  
Pond And Fees: 9.74

It should be noted that there

**Subject:** Callout  
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**Date:** 4/2/2021 4:33:59 PM  
**Author:** dsdrice  
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**Layer:**  
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(no bridge fees)

**Subject:** Callout  
**Page Index:** 10  
**Date:** 4/2/2021 4:34:28 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
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\$12,048

\$13,462 = \$ 45,090.02  
\$8,057 = \$ 26,132.23  
Total \$ 71,222.25  
this Preliminary Drainage Report for inform



**Subject:** Snapshot  
**Page Index:** 10  
**Date:** 4/2/2021 4:35:55 PM  
**Author:** dsdrice  
**Color:** ■  
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these need to be based on the  
ultimate use of the property  
Gravel and paving , except for the  
FSD pond area.  
POINT FILING NO. 10000  
Date: 9/74 x 21,342 x \$13,002 = \$  
Filing: 9/74 x 21,342 x \$8,057 = \$  
Total \$  
noted that these fees are provided in this Preliminary Drainage R

**Subject:** Cloud+  
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**Author:** dsdrice  
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these need to be based on the ultimate use of the  
property. Gravel and paving , except for the FSD  
pond area.

35 (8)

no (front Summary)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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**Page Index:** 35  
**Date:** 4/2/2021 4:18:11 PM  
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**Layer:**  
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**Page Label:** 15


.70


no (front Summary)


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

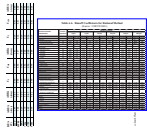
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**Page Index:** 35  
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**Page Label:** 15


.59

Subject:  
Page Index: 35  
Date: 4/2/2021 4:18:26 PM  
Author: dsdrice  
Color:   
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Space:  
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Subject:  
Page Index: 35  
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Space:  
Page Label: 15

Subject:  
Page Index: 35  
Date: 4/2/2021 4:18:42 PM  
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Subject: Snapshot  
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Author: dsdrice  
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Space:  
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RUNOFF COEFFICIENT	
C <sub>5</sub>	C <sub>100</sub>
0.27	0.42
0.29	0.44
0.31	0.46
0.33	0.47
0.35	0.48
0.37	0.50
0.39	0.52
0.41	0.54
0.43	0.56
0.45	0.58
0.47	0.60
0.49	0.62
0.51	0.64
0.53	0.66
0.55	0.68
0.57	0.70
0.59	0.72
0.61	0.74
0.63	0.76
0.65	0.77



Country	C <sub>3</sub>	C <sub>100</sub>	From DCM Table 5-1	
	0.27	0.42		
	0.29	0.44		
	0.09	0.36		
	0.50	0.67		
	0.60	0.74		
	0.65	0.77		

TOTAL FLOWS		
	Q <sub>S</sub> (c.f.s.)	Q <sub>100</sub> (c.f.s.)
	2.1	5.6
	5.6	14.1
	0.1	0.5
	2.0	4.5
	1.6	3.3
	2.2	4.4

TOTAL FLOWS	
$Q_8$ (c.f.s.)	$Q_{100}$ (c.f.s.)
2.1	5.6
5.6	14.1
0.1	0.5
2.0	4.5
1.6	3.3
2.2	4.4

40 (2)

=	0.010	ft
=	33.30%	p
=	100.0%	p

[illegible]

**Subject:** Callout  
**Page Index:** 40  
**Date:** 4/2/2021 4:22:00 PM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
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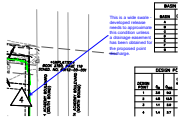
43 (1)

Provide roadside ditch and downstream conveyance calculations.

**Subject:** Text Box  
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**Author:** dsdrice  
**Color:** ■  
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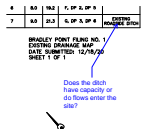
Provide roadside ditch and downstream conveyance calculations.

44 (2)



**Subject:** Callout  
**Page Index:** 44  
**Date:** 4/2/2021 4:24:21 PM  
**Author:** dsdrice  
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**Page Label:** [1] EDM

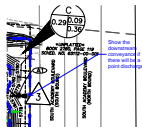
This is a wide swale - developed release needs to approximate this condition unless a drainage easement has been obtained for the proposed point discharge.



**Subject:** Callout  
**Page Index:** 44  
**Date:** 4/5/2021 11:18:30 AM  
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**Page Label:** [1] EDM

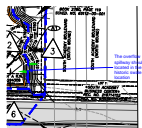
Does the ditch have capacity or do flows enter the site?

46 (16)



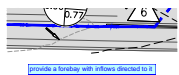
**Subject:** Callout  
**Page Index:** 46  
**Date:** 4/2/2021 4:26:03 PM  
**Author:** dsdrice  
**Color:** ■  
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**Page Label:** [1] PDM

Show the downstream conveyance if there will be a point discharge



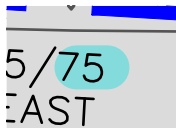
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**Date:** 4/2/2021 4:26:50 PM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] PDM

The overflow spillway should be located in the historic swale location

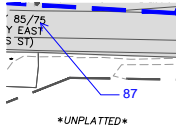


**Subject:** Text Box  
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**Date:** 4/2/2021 4:28:12 PM  
**Author:** dsdrice  
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**Layer:**  
**Space:**  
**Page Label:** [1] PDM

provide a forebay with inflows directed to it

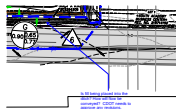


**Subject:**  
**Page Index:** 46  
**Date:** 4/5/2021 11:11:29 AM  
**Author:** dsdrice  
**Color:**   
**Layer:**  
**Space:**  
**Page Label:** [1] PDM



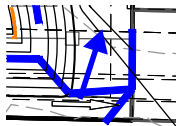
**Subject:** Callout  
**Page Index:** 46  
**Date:** 4/5/2021 11:11:33 AM  
**Author:** dsdrice  
**Color:**   
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**Page Label:** [1] PDM

87

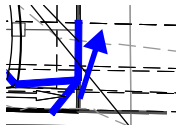


**Subject:** Callout  
**Page Index:** 46  
**Date:** 4/5/2021 11:13:52 AM  
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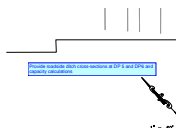
Is fill being placed into the ditch? How will flow be conveyed? CDOT needs to approve any revisions.



**Subject:** Arrow  
**Page Index:** 46  
**Date:** 4/5/2021 11:15:35 AM  
**Author:** dsdrice  
**Color:**   
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**Page Label:** [1] PDM

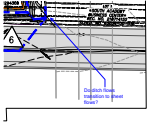


**Subject:** Arrow  
**Page Index:** 46  
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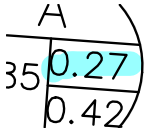
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**Page Index:** 46  
**Date:** 4/5/2021 11:20:50 AM  
**Author:** dsdrice  
**Color:**   
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**Page Label:** [1] PDM

Provide roadside ditch cross-sections at DP 5 and DP6 and capacity calculations

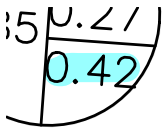


**Subject:** Callout  
**Page Index:** 46  
**Date:** 4/5/2021 11:21:24 AM  
**Author:** dsdrice  
**Color:** ■  
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**Page Label:** [1] PDM

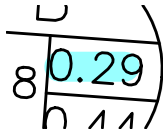
Do ditch flows transition to sheet flows?



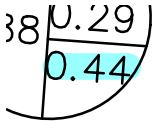
**Subject:**  
**Page Index:** 46  
**Date:** 4/5/2021 8:37:31 AM  
**Author:** dsdrice  
**Color:** ■  
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**Page Label:** [1] PDM



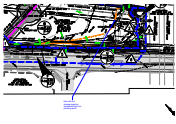
**Subject:**  
**Page Index:** 46  
**Date:** 4/5/2021 8:37:33 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
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**Subject:**  
**Page Index:** 46  
**Date:** 4/5/2021 8:37:37 AM  
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**Color:** ■  
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**Subject:**  
**Page Index:** 46  
**Date:** 4/5/2021 8:37:39 AM  
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**Subject:** Callout  
**Page Index:** 46  
**Date:** 4/5/2021 8:44:57 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] PDM

How will the storage area be separated from the ponding area?



**Subject:** Callout  
**Page Index:** 46  
**Date:** 4/5/2021 8:47:12 AM  
**Author:** dsdrice  
**Color:** ■  
**Layer:**  
**Space:**  
**Page Label:** [1] PDM

Add the orange line to the legend